**Step 1)** Find out tools for Managing Your Test Plan

**Step 2)** Decide the budget for Front End Testing

**Step 3)** Set the timeline for the entire process

**Step 4)** Decide the entire scope of the project. The scope includes the following items

* **OS and browsers** used by users ISP plans of your audience
* Popular devices used by audience
* Proficiency of your audience
* Internet correction speed of the audience

A Frontend Testing plan helps you determine

1. **Browsers**
2. **Operating Systems**

Your project needs to cover. There are innumerable combinations of Browsers and OS that you could test your front end on. Having a plan will help you reduce the testing effort and money.

By creating frontend testing, plan you will get following advantages-

1. It helps you to get the complete clarity about the scope of the project
2. Performing frontend testing also gives confidence in deploying the project

**Tips for Better Frontend Testing**

Here are some important tips that you need to follow to create better frontend testing plan:

* Prepare your budget, resources and time judiciously.
* **Use a headless browser**, so tests are executed faster.
* Cut down the amount of DOM rendering in tests for speedier execution.
* Isolate test cases, so root cause of the bug is determined quickly for a faster defect fix cycle
* Make use your test scripts reusable for faster regression cycles.
* You should use consistent naming convention for your test scripts

## Front-End Performance Optimization

Front-end performance testing checks "**How fast does page loads**."

### What is the Benefit of Front-End Performance Optimization?

* In website testing, apart from server bottlenecks finding the client side performance issues are equally important as they easily impact the user's experience.
* Improving back-end performance by 50% will increase the overall performance of the application by 10%.
* However, improving front-end performance by 50% will increase the overall performance of the application by 40%.
* Moreover, front-end performance optimization is easy and cost-effective as compared to the back-end.

## Front-end Performance Testing Tools

[**Page Speed**](https://developers.google.com/speed/pagespeed/)

Page speed is an open source performance testing add-on launched by Google. The tool evaluates the web page and provides suggestions to minimize loading time. It makes web page retrieval quicker when users access web pages using Google search engine.

[**YSlow**](http://yslow.org/)

YSlow is a frontend web performance testing tool. It analyzes web page performance by examining all the components on the page, including components created by using JavaScript. It also measures the page's performance and offers suggestions to the users.